

REMARKS

The amendments to the paragraph bridging pages 19 and 20 of the specification are supported on page 3, lines 15 to 16 of the specification. Enclosed is a MARKED-UP VERSION OF THE AMENDMENTS TO THE SPECIFICATION.

Claim 6 was amended into independent format by the inclusion of the features of claim 1.

Claim 16 was amended into independent format by the inclusion of the features of claim 11.

The amendments to the other claims generally involve a change of dependency and/or editorial revisions.

Enclosed is a MARKED-UP VERSION OF THE AMENDMENTS TO THE CLAIMS.

Applicants are please to note that claims 6 and 16 were deemed to be allowable (see the middle of page 8 of the Office Action).

Claims 8 to 10 and 18 to 20 were rejected under 35 USC 112, first paragraph for the reasons set forth on page 2 of the Office Action, wherein the Examiner raised questions concerning the "SP" values set forth in claims 8 and 18.

The Examiner inquired as to how the solubility parameter (SP) is measured.

It is well known to those of ordinary skill in the art that the solubility parameter is similar to a kind of property of

matter as shown in Literature 1 attached hereto. Each material has an inherent value of SP, as well as solubility, boiling point, melting point or the like, according to the individual material. SP values of various resins are provided by manufacturers, who usually indicate them on containers of the resins or in descriptive literature therefor. SP values of mixtures of resins can be calculated from the SP values of the individual resins that are mixed.

Concerning the description in the specification on page 19, line 26 to page 20, line 1, it is noted that the magnetic powder is surface-treated by a coupling agent, and then the surface-treated magnetic powder is mixed with silicone rubber and molded into a shape (see page 19, lines 22 to 23 of the present specification). Since the coupling agent improves the affinity between the soft magnetic powder and the binding agent that is silicone rubber, the magnetic permeability is raised from 12 to 17 (see page 19, lines 23 to 26 of the present specification). When the coupling agent is specified which has a particular value of SP, the largest improvement of the affinity is realized.

The present invention has a feature in that the magnetic powder is surface-treated by a coupling agent, which has a SP value nearly equal to that of the binder, so that the magnetic powder can have increased affinity thereto, and therefore be well mixed and attached to the binder through the coupling agent. Therefore, the packing ratio can be increased.

In the first paragraph on page 3 of the Office Action, questions were raised concerning the term "soft" in the terminology of "soft magnetic powder".

The term "soft magnetic" is well known to those of ordinary skill in the art as seen in the enclosed "Literature 2", "Literature 3" and "Literature 4", wherein it is described that a soft magnetic material is a material having a high coercivity.

It is therefore respectfully submitted that the specification and the present claims comply with all of the requirements of 35 USC 112.

Claims 1 to 3, 5, 7 to 13, 15 and 17 to 20 were rejected under 35 USC 102 as being anticipated by Suzuki et al. U.S. Patent Application Publication No. 2001/0051673 (published December 13, 2001) for the reasons set forth beginning at the bottom of page 3 and continuing to page 4, line 15 of the Office Action.

It is respectfully requested that Suzuki et al. be withdrawn as a reference, since the present application has a PCT filing date which is prior to the Suzuki et al. publication date.

Claims 1 to 3 and 11 to 13 were rejected under 35 USC 102 as being anticipated by Takaoka JP 2001-044687 for the reasons set forth in the last paragraph on page 6 of the Office Action.

JP 2001-044687 was published on February 16, 2001. This is after applicants' PCT filing date. It is therefore respectfully requested that this publication be withdrawn as a reference.

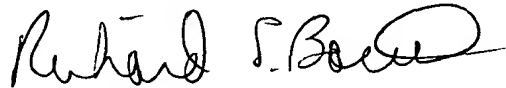
The other prior art rejections are considered to be moot in view of the present claims, which are all directed to subject matter which the Examiner considered to be allowable.

Reconsideration is requested. Allowance is solicited.

The Examiner's attention is directed to the assignee's copending related application Serial No. 09/857,999, filed June 13, 2001, in Group Art Unit 1742 (Examiner Sheenan).

If the Examiner has any comments, questions, objections or recommendations, the Examiner is invited to telephone the undersigned at the telephone number given below for prompt action.

Respectfully submitted,



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- Encs.: (1) PETITION FOR EXTENSION
(2) MARKED-UP VERSION OF THE AMENDMENTS TO THE SPECIFICATION
(3) MARKED-UP VERSION OF THE AMENDMENTS TO THE CLAIMS
(4) "Literature 1" ("Basic Knowledge in Connection with Adhesion")
(5) Literatures 2 to 4

MARKED-UP VERSION OF THE AMENDMENTS TO THE SPECIFICATION
(SERIAL NO. 09/857,998)

Paragraph bridging pages 19 and 20 of the specification:

--In view of this, a composite magnetic body was molded after surface treatment with a coupling agent (soft magnetic powder). As a result, the magnetic permeability was raised from 12 to 17. This was because the affinity between the soft magnetic powder and the binding agent was improved by the use of a coupling agent. In particular, the [binding] coupling agent is [decreased in the range of] specified to ones having a SP (Solubility Parameter) [values] value of 6 to 10 and thereby the magnetic powder is improved in solubility [with] into silicone matrix rubber, so that a highly moldable composite magnetic body was obtained. For coupling agents, titanates, aluminates, silanes, and phosphates are primarily used, and the first three types of coupling agents improve the filling properties of soft magnetic powders because hydrophilic groups containing titanium, aluminum, and the like interact with soft magnetic powders and chemically bond with the surfaces of the soft magnetic powders.--

MARKED-UP VERSION OF THE AMENDMENTS TO THE CLAIMS
(SERIAL NO. 09/857,998)

2. (Amended) A composite magnetic body as recited in claim [1] 6, wherein the silicone rubber is at least one type of material selected from [a] the group consisting of solid silicone rubber and chemically setting liquid silicone rubber.

3. (Amended) A composite magnetic body as recited in claim [1] 6, wherein the silicone rubber contains an additive comprising at least one element selected from [a] the group consisting of platinum, silicon, titanium, iron, copper, nickel[,] and cobalt.

4. (Amended) A composite magnetic body as recited in claim [1] 6, wherein the silicone rubber contains an additive comprising carbon black.

5. (Amended) A composite magnetic body as recited in claim [1] 6, wherein the soft magnetic powder is a magnetic alloy powder having a flat shape.

6. (Amended) A composite magnetic body [as recited in claim 1, wherein] comprising a silicone rubber and a soft magnetic powder dispersed in the silicone rubber, the soft magnetic powder [has] having a specific surface area of 0.1-3 m²/g.

7. (Amended) A composite magnetic body as recited in claim [1] 6, wherein the soft magnetic powder has an aspect ratio of 3 or more.

8. (Amended) A composite magnetic body as recited in claim [1] 6, wherein the soft magnetic powder is surface-treated with a coupling agent having a [SP] solubility parameter value ranging from 6 to 10.

9. (Amended) A composite magnetic body as recited in claim 8, wherein the coupling agent is at least one compound selected from [a] the group consisting of titanate, aluminate[,] and silane.

10. (Amended) A composite magnetic body as recited in claim [1] 6, wherein the soft magnetic powder is surface-treated with a primer having a [SP] solubility parameter value less than that of the soft magnetic powder, but greater than that of the silicone rubber.

12. (Amended) An electromagnetic interference suppressing body as recited in claim [11] 16, wherein the silicone rubber is at least one type of material selected from [a] the group consisting of solid silicone rubber and chemically setting liquid silicone rubber.

13. (Amended) An electromagnetic interference suppressing body as recited in claim [11] 16, wherein the silicone rubber contains an additive comprising at least one element selected from [a] the group consisting of platinum, silicon, titanium, iron, copper, nickel[,] and cobalt.

14. (Amended) An electromagnetic interference suppressing body as recited in claim [11] 16, wherein the silicone rubber contains an additive comprising carbon black.

15. (Amended) An electromagnetic interference suppressing body as recited in claim [11] 16, wherein the soft magnetic powder is a magnetic alloy powder having a flat shape.

16. (Amended) An electromagnetic interference suppressing body [as recited in claim 11, wherein] for suppressing electromagnetic interference brought about by the interference of unwanted electromagnetic waves, wherein said electromagnetic

interference suppressing body is made of a composite magnetic body comprising a silicone rubber and a soft magnetic powder dispersed in the silicone rubber, the soft magnetic powder [has] having a specific surface area of 0.1-3 m²/g.

17. (Amended) An electromagnetic interference suppressing body as recited in claim [11] 16, wherein the soft magnetic powder has an aspect ratio of 3 or more.

18. (Amended) An electromagnetic interference suppressing body as recited in claim [11] 16, wherein the soft magnetic powder is surface-treated with a coupling agent having a [SP] solubility parameter value ranging from 6 to 10.

19. (Amended) An electromagnetic interference suppressing body as recited in claim 18, wherein the coupling agent is at least one compound selected from [a] the group consisting of titanate, aluminate[,] and silane.

20. (Amended) An electromagnetic interference suppressing body as recited in claim [11] 16, wherein the soft magnetic powder is surface-treated with a primer having a [SP] solubility parameter value less than that of the soft magnetic powder, but greater than that of the silicone rubber.